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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/588,742   | 08/07/2006  | Toshikazu Tanae      | 4724-0037WOUS       | 9667             |
| 35301 7590 01/22/2008<br>MCCORMICK, PAULDING & HUBER LLP<br>CITY PLACE II<br>185 ASYLUM STREET<br>HARTFORD, CT 06103 |             |                      | EXAMINER            |                  |
|  |             |                      | KRAMER, DEAN J      |                  |
|  |             |                      | ART UNIT            | PAPER NUMBER     |
|  |             |                      | 3652                |                  |
|  |             |                      |                     |                  |
|  |             |                      | MAIL DATE           | DELIVERY MODE    |
|  |             |                      | 01/22/2008          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | Application No.                         | Applicant(s)            |  |  |  |
|--|---|-------------------------|--|--|--|
| Office Action Comments   | 10/588,742                              | TANAE, TOSHIKAZU        |  |  |  |
| Office Action Summary  | Examiner                                | Art Unit                |  |  |  |
|  | Dean J. Kramer                          | 3652                    |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply  |   |                         |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |   |                         |  |  |  |
| Status   |   |                         |  |  |  |
| 1) Responsive to communication(s) filed on   |   |                         |  |  |  |
|  | -<br>action is non-final.               |                         |  |  |  |
| 3) Since this application is in condition for allowan  | <del>-</del>                            |                         |  |  |  |
| closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |   |                         |  |  |  |
| Disposition of Claims  |   |                         |  |  |  |
| 4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.   |   |                         |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.   |   |                         |  |  |  |
| 5) Claim(s) is/are allowed.  |   |                         |  |  |  |
| 6) Claim(s) <u>1-3</u> is/are rejected.  |   |                         |  |  |  |
| 7) Claim(s) is/are objected to.  |   |                         |  |  |  |
| 8) Claim(s) are subject to restriction and/or  | election requirement.                   |                         |  |  |  |
|  | ·                                       |                         |  |  |  |
| Application Papers   |   |                         |  |  |  |
| 9) The specification is objected to by the Examiner.   |   |                         |  |  |  |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  |   |                         |  |  |  |
| Applicant may not request that any objection to the c  | • | * *                     |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |   |                         |  |  |  |
| 11)☐ The oath or declaration is objected to by the Exa   | aminer. Note the attached Office        | Action or form PTO-152. |  |  |  |
| Priority under 35 U.S.C. § 119   |   |                         |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>  |   |                         |  |  |  |
| Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413)   |   |                         |  |  |  |
| Notice of References Cited (PTO-992)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 8/7/06.  Paper No(s)/Mail Date 8/7/06.  |   |                         |  |  |  |

Application/Control Number: 10/588,742 Page 2

Art Unit: 3652

### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "projected rather than", as recited in claim 1, line 5, is not clearly understood.

Further, there is no clear antecedent basis for "the disk portion" as recited in claim 1, line 9.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 1, as understood, is rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent 10-181879 in view of Carlomagno (4,921,520).

Japanese Patent 10-181879 shows a non-contact carrying device that contains all of the structural limitations as broadly as recited in claim 1 of the instant application

except for a nozzle-moving member for changing the width of the slit through which gas flows.

However, Carlomagno shows embodiments in Figures 8a and 8b comprising a nozzle (24) and a moving member (21) that can adjust the flow of gas around the nozzle and thus the lifting force of the carrier (see col. 5, line 68 - col. 6, line 8).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a moving member on the Japanese ('879) nozzle similar to that shown in Fig. 8a or 8b of Carlomagno so that the lifting force of the carrier could be adjusted to handle objects of various sizes and weights.

### Allowable Subject Matter

5. Claims 2 and 3 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

#### **Priority**

6. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Each of the remaining cited reference shows a non-contact carrying device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean J. Kramer whose telephone number is (571) 272-6926. The examiner can normally be reached Monday –Friday 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saul Rodriguez, can be reached at (571) 272-7097. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (In USA or Canada) or 571-272-1000.

/Dean J Kramer/

Primary Examiner, Art Unit 3652

Djk

1/18/08